

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): ~~Method~~ A method in computer-controlled confocal microscopy, for producing three-dimensional surface images of internal surfaces of cylinders in engine blocks, by using a confocal microscope having a microscope body, a tube attached to the ~~latter~~ microscope body and having a lens, which is preceded by a deflection optical system ~~(2)~~ having a horizontal translator ~~(3)~~.

Claim 2 (currently amended): ~~Device~~ A device for implementing the method according to claim 1, having a deflection optical system ~~(2)~~ located ahead of the lens ~~(1)~~.

Claim 3 (currently amended): ~~Device~~ The device according to claim 2, wherein the deflection optical system ~~(2)~~ ~~consists of~~ comprises a reflection prism.

Claim 4 (currently amended): ~~Device~~ The device according to claim 2, wherein the deflection optical system ~~(2)~~ ~~consists of~~ comprises a surface mirror.

Claim 5 (currently amended): ~~Device~~ The device according to claim 2, wherein the deflection optical system ~~(2)~~ deflects the beam by less than 90 degrees.

Claim 6 (currently amended): ~~Device~~ The device according to claim 2, wherein the lens ~~(1)~~ is a standard lens having an equalization length of 45 mm.

Claim 7 (currently amended): ~~Device~~ The device according to claim 2, wherein the lens ~~(1)~~ possesses an equalization length that is less than 45 mm.

Claim 8 (currently amended): ~~Device~~ The device according to claim 2, wherein the lens ~~(1)~~ can be moved by means of a piezo setting element ~~(3)~~.

Claim 9 (currently amended): ~~Device~~ The device according to claim 2, wherein the lens ~~(1)~~ can be moved by means of a stepper motor.

Claim 10 (currently amended): ~~Device~~ The device according to claim 2, having a device for attaching and adjusting the computer-controlled confocal microscope to be moved into cylinders in engine blocks, to measure the internal surfaces of the cylinders.

Claim 11 (currently amended): ~~Device~~ The device according to claim 10, wherein the attachment device possesses a clamping connection or screwed connection to the cylinder.

Claim 12 (currently amended): ~~Device~~ The device according to claim 10, wherein the microscope can be moved into the cylinder by means of a linear guide ~~(13)~~.

Claim 13 (currently amended): ~~Device~~ The device according to claim ~~10~~ 12, wherein the microscope is adjustable and can be fixed in place with regard to the insertion depth, by means of the linear

guide ~~(13)~~.

Claim 14 (currently amended): ~~Device~~ The device according to claim 10, wherein the attachment device or the adjustment device allows a rotation about the cylinder axis.

Claim 15 (currently amended): ~~Device~~ The device according to claim 10, wherein the attachment device allows an adjustment of the distance between the lens and the internal surface of the cylinder, ~~in other words focusing~~.